## (56) References Cited

## OTHER PUBLICATIONS

Pillapakkam, et al., A Level-Set Method for Computing Solutions to Viscoelastic Two-Phase Flow, Journal of Computational Physics, 2001, pp. 552-578, vol. 174.

Pillapakkam, et al., Transient and Steady State of a Rising Bubble in a Viscoelastic Fluid, J. Fluid Mech., 2007, pp. 215-252, vol. 589. Pohl, Dielectrophoresis, The Behavior of Neutral Matter in Nonuniform Electric Fields, 1978, pp. 38-47, Cambridge University Press, Cambridge.

Ramos, et al., The Role of Electrohydrodynamic Forces in the Dielectrophoretic Manipulation and Separation of Particles, Journal of Electrostatics, 1999, pp. 71-81, vol. 47.

Ramsden, Separation of Solids in the Surface-Layers of Solutions and 'Suspensions', Proceedings of the Royal Society of London, Jun. 8, 1903, pp. 156-157.

Reznik, et al., Transient and Steady Shapes of Droplets Attached to a Surface in a Strong Electric Field, J. Fluid Mech., 2004, pp. 349-377, vol. 516.

Saville, Electrohydrodynamics: The Taylor-Melcher Leaky Dielectric Model, Annu. Rev. Fluid Mech., 1997, pp. 27-64, vol. 29.

Sebba, Foams and Biliquid Foams—Aphrons, 1987, pp. 112-113, John Wiley & Sons, Chichester, UK.

Seo, et al., Microfluidic Consecutive Flow-Focusing Droplet Generators, Soft Matter, 2007, pp. 986-992, vol. 3.

Sherwood, Breakup of Fluid Droplets in Electric and Magnetic Fields, J. Fluid Mech., 1988, pp. 133-146, vol. 188.

Singh, et al, Transport and Deformation of Droplets in a Microdevice Using Dielectrophoresis, Electrophoresis, 2007, pp. 644-657, vol. 28

Singh, et al., Trapping Force on a Finite-Sized Particle in a Dielectrophoretic Cage, Physical Review, 2005, pp. 016602-016607, vol. 72.

Singh, et al., Fluid Dynamics of Floating Particles, J. Fluid Mech., 2005, pp. 31-80, vol. 530.

Singh, et al., Deformation of a Droplet in a Uniform Electric Field, Proceedings of FESM2006, ASME Joint U.S.-European Fluids Engineering Summer Meeting, Jul. 17-20, 2006, pp. 1-8, FEDSM2006-08413

Singh, et al., A Distributed Lagrange Multiplier/Fictitious Domain Method for Viscoelastic Particulate Flows, J. Non-Newtonian Fluid Mech., 2000, pp. 165-188, vol. 91.

Song, et al., A Microfluidic System for Controlling Reaction Networks in Time, Angew. Chem. 2003, pp. 791-796, vol. 115, No. 7. Stancik, et al., Coalescence of Particle-Laden Fluid Interfaces, Langmuir, 2004, pp. 90-94, vol. 20.

Subramaniam, et al., Non-Spherical Bubbles, Nature, Dec. 15, 2005, p. 930, vol. 438.

Subramaniam, et al., Microstructure, Morphology, and Lifetime of Armored Bubbles Exposed to Surfactants, Langmuir, 2006, pp. 5986-5990, vol. 22.

Tambe, et al., The Effect of Colloidal Particles on Fluid-Fluid Interfacial Properties and Emulsion Stability, Advances in Colloid and Interface Science, 1994, pp. 1-63, vol. 52.

Tambe, et al., Factors Controlling the Stability of Colloid-Stabilized Emulsions, Journal of Colloid and Interface Science, 1994, pp. 1-10, vol. 162.

Taylor, Disintegration of Water Drops in an Electric Field, Proceedings of the Royal Society of London. Series A, Mathematical and Physical Sciences, Jul. 28, 1964, pp. 383-397, vol. 280, No. 1382. Taylor, Studies in Electrohydrodynamics. I. The Circulation Produced in a Drop by Electrical Field, Proceedings of the Royal Society of London. Series A, Mathematical and Physical Sciences, Apr. 5, 1966, pp. 159-166, vol. 291, No. 1425.

Torza, et al., Electrohydrodynamic Deformation and Burst of Liquid Drops, Philosophical Transactions of the Royal Society of London. Series A, Mathematical and Physical Sciences, Feb. 18, 1971, pp. 295-319, vol. 269, No. 1198.

Vignati, et al., Pickering Emulsions: Interfacial Tension, Colloidal Layer Morphology, and Trapped-Particle Motion, Langmuir, 2003, pp. 6650-6656, vol. 19.

Wohlhuter, et al., Shapes and Stability of Pendant and Sessile Dielectric Drops in an Electric Field, J. Fluid Mech., 1992, pp. 481-510, vol. 235

Yan, et al., Adsorption and Desorption of Clay Particles at the Oil-Water Interface, Journal of Colloid and Interface Science, 1994, pp. 386-392, vol. 168.

Jung, et al., Separation of Microparticles and Biological Cells Inside an Evaporating Droplet Using Dielectrophoresis, Anal. Chem. 2007, 79, 5087-5092.

Zhao, et al., Highly Efficient in-Droplet Particle Concentration and Separation by twDEP and EWOD for Digital Microfluidics, IEEE MEMS 2007, Kobe, Japan, Jan. 21-25, 2007.

<sup>\*</sup> cited by examiner